



TENASKA KIAMICHI GENERATING STATION

The Tenaska Kiamichi Generating Station is a 1,220-megawatt power plant near Kiowa in Pittsburg County, Oklahoma. Fueled by clean-burning natural gas, it has the ability to generate enough electricity to serve 1.2 million homes.

Tenaska Kiamichi is owned by Kiowa Power Partners, an affiliate of independent energy company Tenaska, which has a nearly 30-year history of developing and operating safe, efficient and environmentally responsible power projects.

LOCAL BENEFITS

Employment

- 35 well-paid, full-time employees operate the plant; employees live, pay taxes and purchase goods and services in Oklahoma
- More than \$5.8 million paid in employee salaries and payments to local contractors and vendors in 2015

Taxes

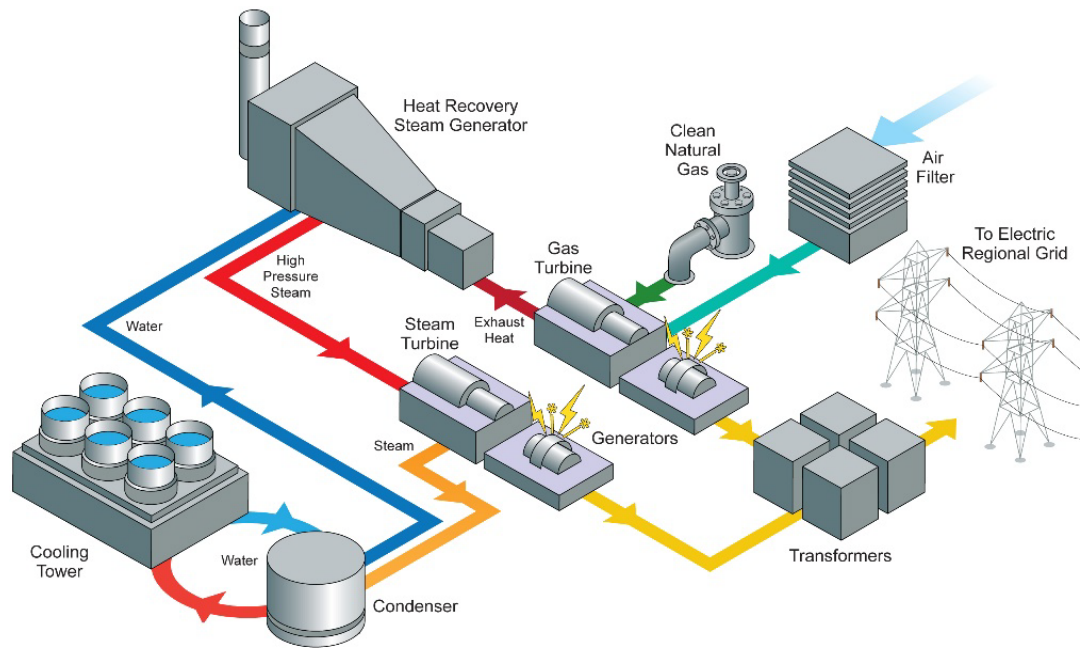
- \$29.3 million paid in property taxes through 2015
- Little impact on local services, such as police, fire or roads

Community Involvement

- Tenaska Kiamichi and its power customer, Shell Energy, have awarded \$104,000 in scholarships to 109 college-bound seniors from Kiowa High School to date
- Employees volunteered 1,000 hours to support community and charitable projects in 2015
- The plant provides educational tours to student groups

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HOW IT WORKS



With combined-cycle power plants like Tenaska Kiamichi, energy produced by the combustion of natural gas drives turbine-generator sets to produce electricity. The exhaust heat from the natural gas turbine-generator sets is used to produce steam, which drives a steam turbine-generator to produce more electricity without using additional fuel. Water at the plant is primarily used to make and condense the steam, which powers the steam turbine-generator. It's an efficient process, as water is captured and reused multiple times, minimizing water consumption.

MINIMAL IMPACT TO LAKE EUFAULA

- The Tenaska Kiamichi plant receives water from Lake Eufaula through a 34-mile supply line. The plant is allotted 12,040 acre-feet of water each year, which is less than 1 percent of the water in the 1.4 million acre-feet lake when at capacity.
- The plant's water use is spread out over the course of a year, and the most water it has drawn on a single day is 27.69 acre-feet. For context, if the plant were to draw all of its annually allotted water at one time, the lake level, when at capacity, would drop just 1.4 inches.
- The plant has a minimal impact on Lake Eufaula water levels, especially when compared to environmental factors such as drought and evaporation. Up to 60 inches of water can evaporate from the lake each year – approximately 42 times more water than Tenaska's annual allocation.
- The plant returns approximately 15 percent of the allotted water it withdraws into the lake's watershed via a 14-mile pipeline that feeds into Peaceable Creek. The released water is treated to ensure it meets all applicable environmental standards, and its quality is as good – or better than – the lake's water quality.
- As part of its water permit, the plant pays approximately \$25,000 per year for its water allotment. This fee is used for upkeep and maintenance of the dam, which was completed in 1964.
- The Tenaska Kiamichi plant DOES NOT sell water to a third party, nor does it transport any of its allotted water out of Oklahoma.